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Circular No. 14—Radio. (Fifth Edition)

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
C. F. MARVIN, Chief

Forecast Division

Washington, D. C., October 1, 1932

DISTRIBUTION OF WEATHER FORECASTS, INFORMATION, AND WARNINGS BY RADIO IN THE GULF OF MEXICO, CARIBBEAN SEA, AND ADJACENT WATERS OF THE NORTH ATLANTIC OCEAN

Weather forecasts and information are broadcast daily from a number of naval and commercial radio stations for the benefit of navigation and other interests in the Gulf of Mexico, Caribbean Sea, contiguous North Atlantic Ocean, and on adjacent coasts.

A weather bulletin is broadcast daily during the period July 1 to November 15, inclusive, by the U. S. Naval Radio Station NAU at San Juan, P. R., on a frequency of 113 k.c., CW (2,655 meters) at 9 p. m., 75th meridian time (0200 G. C. T.). The U. S. Naval Radio Station NAW at Guantanamo, Cuba, rebroadcasts this bulletin on a frequency of 113 k. c., CW (2,655 meters) at 9:30 p. m., 75th meridian time (0230 G.C.T.).

EXPLANATION OF BULLETINS

The bulletin is divided into two parts. The first contains reports of barometric pressure, wind direction and velocity at certain stations, each of which is indicated by one or more "key letters", and using a group of five figures to represent the data contained in the report. The second part consists of hurricane warnings and advices, or, in the absence thereof, a brief statement to that effect. If a weather report from any station can not be supplied, the key letters and data figures will be omitted altogether, but in case only a portion of a report is missing, the letter "x" will be substituted for the omitted data figure.

The schedules of broadcasts in all cases are given in Greenwich civil time (G. C. T.).

KEY TO FIRST PART AND EXAMPLES

Barometric pressure (first three figures of group): Pressure, (reduced to sea level) in inches and hundredths, except that the first figure of full reading is omitted. Thus, if the corrected pressure is 29.98 inches, the figures 998 are sent; or, if the reading is 30.14 inches, the figures 014 are sent.

Direction of surface wind (fourth figure of group).

0=calm, or no movement.
1=northeast.
2=east.
3=southeast.
4=south.
5=southwest.
6=west.
7=northwest.
8=north.

Force of wind (fifth figure of group): Sent according to Beaufort scale, values 0 to 9, inclusive.

Beaufort scale

Scale No.	Explanatory titles	Miles per hour (statute)	Terms used in forecasts
0	Calm	Less than 1	
1	Light air	1 to 3	Light.
2	Slight breeze	4 to 7	
3	Gentle breeze	8 to 12	Gentle.
4	Moderate breeze	13 to 18	Moderate.
5	Fresh breeze	19 to 24	Fresh.
6	Strong breeze	25 to 31	Strong.
7	High wind	32 to 38	
8	Gale	39 to 46	Gales.
9	Strong gale	47 to 54	
*10 (W)	Whole gale	55 to 63	Whole gale.
*11 (S)	Storm	64 to 75	
*12 (H)	Hurricane	Over 75	Hurricane.

*The numeral code does not admit of force in excess of 9 being sent. Therefore, the letters W, S, and H will be used for wind forces 10, 11, and 12, respectively.

NOTE.—The last column gives the terms applicable to the Beaufort scale which are used in the forecasts and warnings issued by the U. S. Weather Bureau.

Example of group as sent: 99842.

Translation: Barometric pressure, 29.98 inches, wind from south, wind force, 2 (4 to 7 statute miles per hour).

The second part of the bulletin consists of information as to storm centers, storm and hurricane warnings, and advices to shipping. Whenever a storm exists that is likely to affect a section, the location and expected direction of movement of the storm center will be given, followed by any storm or hurricane warnings and advices to shipping which have been issued.

NOTE.—A similar, but more comprehensive bulletin, containing reports from stations in eastern United States, eastern Canada, and from ships at sea—also forecasts, warnings, and weather information—is broadcast for the benefit of marine interests from NAA at Arlington, Va., at (1500) and (0300). This bulletin is rebroadcast from NAU at San Juan at (1600) and (0430) on a frequency of 113 kilocycles (2,655 meters), except when conditions do not permit the reception of the Arlington Bulletin at San Juan. For particulars of this broadcast, see Circular No. 13—Radio, a copy of which may be secured on application to the U. S. Weather Bureau, Washington, D. C.

SAN JUAN, P. R. (July 1 to November 15, inclusive.)

Station NAU—United States Navy.

Radiotelegraph. Frequency, 113 k. c., CW (2,655 meters), at (0200).

Observation stations contained in first part and code letters		Second part of bulletin
San Juan, P. R.	SJ	All hurricane warnings. In the absence of a tropical storm the following words will be sent each day "Weather normal over eastern Caribbean".
St. Thomas, Virgin Islands	ST	
Basseterre, St. Kitts	BT	
Roseau, Dominica	RS	
Bridgetown, Barbados	BB	
Santo Domingo, D. R.	SD	
Puerto Plata, D. R.	PL	
Castries, St. Lucia	LU	
Willemstadt, Curaçao	W	
Port of Spain, Trinidad	PS	
St. Martins, Dutch W. I.	SM	

Hurricane warnings, when received, are broadcast on 500 k. c. (600 meters) immediately after first silent period, and repeated at 1-hour intervals for 12 hours, or until superseded.

All broadcasts are made daily, Sundays and holidays included, except as otherwise noted, throughout the year.

Radio stations				Weather information broadcast	Hour of broadcasting (G. C. T.)	Weather Bureau stations issuing information
Location	Call letters	Frequency (kilocycles)	Wave length (meters)			
Charleston, S. C..	NAO	122	2,459 ICW	(*a*) Wind and weather forecasts and storm warnings for South Carolina coast; advisory messages relating to storm warnings issued for middle, south Atlantic, and east Gulf coasts; and 8 a.m. (1300 G.C.T.) barometric pressure, wind direction and velocity, and state of weather at Charleston.	(*a*) 1530.	Charleston, S. C.
				(*b*) Storm warnings and advices issued in afternoon and hurricane warnings and advisory messages relating thereto.	(*b*) 2300. When issued and repeated at 2-hour intervals for 12 hours.	
Savannah, Ga.....	WSV	170	1,765 ICW	(*a*) Wind and weather forecasts for Cape Hatteras, N.C., to Jacksonville, Fla., and storm and hurricane warnings for Georgia coast; advisory messages relating to storm warnings issued for middle and south Atlantic and east Gulf coasts; and 8 a. m. (1300 G. C.T.) barometric pressure, wind direction and velocity, and state of weather at Savannah.	(*a*) 1600.	Savannah, Ga.
				(*b*) Storm warnings and advices issued in afternoon	(*b*) 2330.	
		500	600	(*c*) Hurricane warnings and advisory messages relating thereto.	(*c*) When issued and repeated at 1-hour intervals until 0100.	
Jupiter, Fla.....	NAQ	185	1,622 ICW	(*a*) Wind and weather forecasts and storm warnings for east coast of Florida, Jacksonville to Florida Straits; advisory messages relating to storm warnings issued for the middle and south Atlantic and east Gulf coasts; and 8:00 a. m. (1300 G. C. T.) barometric pressure, wind direction and velocity, and state of weather at Miami.	(*a*) 1630.	Jacksonville, Fla.
				(*b*) Storm warnings and advices issued in afternoon	(*b*) 2300.	
		500	600	(*c*) Hurricane warnings and advisory messages relating thereto.	(*c*) When issued and repeated at 1-hour intervals for 12 hours.	
Key West, Fla ...	NAR	113	2,655 CW	(*a*) Winds and weather off the Atlantic coast, Jacksonville to Florida Straits; winds over east Gulf of Mexico (east of longitude 90°); storm and hurricane warnings and advices for south Atlantic coast and Gulf of Mexico.	(*a*) 1800.	Key West, Fla.
		113	2,655 CW	(*b*) Winds and weather off Atlantic coast, Jacksonville to Florida Straits; winds and weather over east Gulf of Mexico (east of longitude 90°); winds and weather over west Gulf of Mexico (west of longitude 90°); winds and weather over Caribbean Sea (west of longitude 73°) and Windward Passage. Storm warnings Jacksonville to Florida Straits; storm warnings Gulf of Mexico, Key West to Brownsville. Location and expected movement of storm centers affecting Atlantic coast south of Hatteras, and Gulf of Mexico. All hurricane warnings and advices.	(*b*) 0400.	
		500	600	(*c*) All hurricane warnings and advisory messages relating thereto.	(*c*) When received and repeated at 1-hour intervals after first silent period for 12 hours, or until superseded.	
Pensacola, Fla....	NAS	113	2,655 CW	(*a*) Wind and weather forecasts and storm warnings for Florida, Alabama, and Mississippi coasts, Apalachicola to Bay St. Louis; advisory messages relating to storm warnings issued for south Atlantic and Gulf coasts; and 8 a. m. (1300 G. C. T.) barometric pressure, wind direction and velocity, and state of weather at Pensacola.	(*a*) 1548.	Pensacola, Fla.
				(*b*) Storm warnings and advices issued in afternoon and night.	(*b*) 2303.	
		500	600	(*c*) Hurricane warnings and advisory messages relating thereto.	(*c*) When issued and repeated at 1-hour intervals after first silent period for 12 hours.	
New Orleans, La...	NAT	104	2,885 CW	(*a*) Wind and weather forecasts for the Gulf coast, Apalachicola to Brownsville; 8 a. m. (1300 G.C.T.) barometric pressure, wind direction and velocity at Apalachicola, Pensacola, Mobile, Port Eads, New Orleans, Port Arthur, Galveston, Corpus Christi, and Brownsville; and storm and hurricane warnings and advices issued in the morning affecting the Gulf and south Atlantic coasts.	(*a*) 1600.	New Orleans, La.
				(*b*) Storm and hurricane warnings and advices issued for the Gulf and south Atlantic coasts.	(*b*) When issued and at 1700.	

All broadcasts are made daily, Sundays and holidays included, except as otherwise noted, throughout the year.

Radio stations				Weather information broadcast	Hour of broadcasting (G. C. T.)	Weather Bureau stations issuing information
Location	Call letters	Frequency (kilocycles)	Wave length (meters)			
New Orleans, La.. (Continued)	NAT	104	2,885 CW	(*c*) Wind and weather forecasts for Gulf coast, Apalachicola to Brownsville; 8 p. m. (0100 G.C.T.) barometric pressure and wind direction and velocity at Pensacola, Mobile, Port Eads, and Galveston. General summary of night weather and barometric conditions and storm and hurricane warnings and advices issued at night prior to 10 p.m. affecting the Gulf and South Atlantic coasts.	(*c*) 0300.	New Orleans, La.
New Orleans, La..	WFB	90	3,331 CW	(*a*) Winds and weather over east Gulf of Mexico (east of longitude 90°); winds and weather over west Gulf of	(*a*) 1630 and 0430.	Washington, D. C.
	WFD	10,470	28.7 CW	Mexico (west of longitude 90°); winds and weather over Caribbean Sea (west of longitude 73°) and Windward Passage. Storm warnings for Gulf of Mexico and Caribbean Sea. All hurricane warnings and advices when issued. (Broadcast from WNU to TIM Limon. Ships are at liberty to receive, and to repeat them if desired.)		
				(*b*) Storm and hurricane warnings and advices for the Gulf and south Atlantic coasts.	(*b*) When issued and at 1500 and 0300.	
Port Arthur, Tex..	WPA	500	600 ICW	(*a*) Storm warnings for the Gulf of Mexico, and all hurricane warnings and advices whenever issued for the Gulf	(*a*) When issued.	Port Arthur, Tex.
		418	720 ICW	of Mexico, Caribbean Sea, and south Atlantic coasts.		
Galveston, Tex....	WGV	418	720 ICW	(*a*) Storm warnings and advices for the Texas coast, Port Arthur to Corpus Christi; hurricane warnings and advisory messages relating thereto.	(*a*) 1400 and on the hour each hour thereafter, or until superseded, until 2300.	Galveston, Tex.
				(*b*) Forecasts for Galveston and vicinity, east Texas, and west Texas—on call from ships.	(*b*) On call from 1400 to 1800, and from 1900 to 2300.	
Brownsville, Tex..	NAY	104	2,885 CW	(*a*) Wind and weather forecasts and storm warnings for Texas coast, Port Arthur to Brownsville; advisory messages relating to storm warnings issued for Gulf coast.	(*a*) 1700.	Brownsville, Tex.
				(*b*) Storm warnings and advices issued in afternoon.....	(*b*) 0000.	
				(*c*) Winds and weather for Jacksonville, Fla., to Florida Straits; winds and weather over east Gulf of Mexico (east of longitude 90°); winds and weather over west Gulf of Mexico (west of longitude 90°); winds and weather over Caribbean Sea (west of longitude 73°) and Windward Passage. Storm warnings for Gulf of Mexico, Key West to Brownsville, and Atlantic coast from Jacksonville to Key West. Location and expected movement of storm centers affecting Gulf of Mexico. All hurricane warnings and advices.	(*c*) 0500.	
San Juan, P. R...	NAU	113	2,655 CW	(*a*) Rebroadcasts, 10 a. m. (1500 G.C.T.) and 10 p. m. (0300 G.C.T.) Arlington (NAA) marine bulletin, consisting of synopsis, warnings, and ocean forecasts (portions of Part 1) and of coded weather reports (all of Part 2). See Circular No. 13. (This rebroadcast not made when conditions do not permit of reception of Arlington bulletin at San Juan.)	(*a*) 1600 and 0430.	Washington, D. C.
		500	600	(*b*) All hurricane warnings and advisory messages relating thereto whenever issued.	(*b*) When issued and repeated at 2-hour intervals, or until superseded, until 0500.	Washington, D. C., and San Juan, P. R.
Guantanamo, Cuba	NAW	500	600	All hurricane warnings and advisory messages relating thereto whenever issued. (Repeats San Juan bulletin. See page 1.)	When issued and repeated at about 4-hour intervals.	Do.
Port au Prince, Haiti	NSC	500	600	All hurricane warnings and advisory messages relating thereto whenever issued.	....do.....	Do.
St. Thomas, V. I.	WTDV	4,295	69.8	..... do.....	...do.....	Do.
St. Croix, V. I...	WTDW	4,295	69.8	..... do.....	....do.....	Do.
Ensenada, P. R ..	WPR	500	600 Spark	..... do.....	....do.....	Do.

All broadcasts are made daily, Sundays and holidays included, except as otherwise noted, throughout the year.

Radio stations				Weather information broadcast	Hour of broadcasting (G. C. T.)	Weather Bureau stations issuing information
Location	Call letters	Frequency (kilocycles)	Wave length (meters)			
Limon, Costa Rica	TIM	400	750	Winds and weather over east Gulf of Mexico (east of longitude 90°); winds and weather over west Gulf of Mexico (west of longitude 90°); winds and weather over Caribbean Sea (west of longitude 78°) and Windward Passage. Storm warning for Gulf of Mexico and Caribbean Sea. All hurricane warnings and advices when issued. (Transmitted from WNU to TIM in the nature of a broadcast. Ships are at liberty to receive, and to repeat them if desired.)	1630.	Washington, D. C.

NOTE.—Previous Weather Bureau Circular No. 14, dated August 15, 1929, is hereby superseded. For radio distribution on Pacific coast, see Circular No. 10—Radio. For radio distribution on Atlantic coast and description of Arlington weather bulletin, see Circular No. 13—Radio.

(WB—10-6-32—1,000)